

The Math 12 Competency Test covers the topics listed below. Once you have registered for a test, you will be emailed information about the Math 12 Companion course which will give you access to practice problems to prepare you for the test.

- Basic Algebra
 - Simplify algebraic expressions
 - Multiply, divide and factor polynomials
- Algebraic Fractions
 - Multiply, divide and simplify fractions
 - Simplify the sum or difference of simple and complex fractions
- Working with Radicals
 - Switch from radical to exponent form
 - Rationalize the denominator
 - Add, subtract, multiply and divide with radicals
- Solving Equations
 - Solve linear, fractional, quadratic, and radical equations
 - Solve systems of two linear equations
 - Solve simple linear inequalities
- Manipulating Formulas and Functional Notation
 - Solve formulas for different variables
 - Manipulate functions using functional notation
- Word Problems
 - Solve mixture, work, percentage and uniform change problems
 - Solve problems involving geometric shapes
- Unit Conversion and Percent
 - Convert from one unit to another unit
 - Switch between radians and degrees
- Variation
 - Solve simple and complex direct and indirect variation problems
- Geometry
 - Calculate the perimeter and area of a circular sector or plane figure
 - Calculate the surface area or volumes of solid objects
 - Solve problems involving triangles using Pythagoras's formula
 - Solve problems using similar triangles

- Logarithms
 - Convert from logarithmic form to exponential form and vice versa
 - Use the properties of logarithms to manipulate and simplify expressions
 - Solve logarithmic and exponential equations
- Trigonometry
 - Solve right and oblique triangle problems
 - Solve simple trigonometric equations
 - Relate trigonometric functions of any angle to the function of an acute angle
- Graphs and Related Topics
 - Plot points on a Cartesian graph
 - Determine the equation, slope and x or y-intercept of a linear line
 - Calculate the linear distance between two points
 - Determine the equation of a circle